

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2041 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	23/06/93	Elevation:	No Data
Map Ref.:	Sheet No. : 8154 GPS	Rainfall:	No Data
Northing/Long.:	7611156 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	444913 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching, Surface flake

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Deep	Principal Profile Form:	Ug5.15
ASC Confidence:	Great Soil Group:	Black earth

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia harpophylla, Eremophila mitchellii
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Acacia harpophylla, Eucalyptus cambageana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; ; Calcareous, , ; Gypseous, , ; Field pH 7.5 (Raupach, 0.05); Clear change to -
B21	0.1 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Sandy medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.25); Gradual change to -
B22	0.4 - 0.7 m	Dark greyish brown (10YR4/2-Moist); ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8 (Raupach, 0.6);
B23	0.7 - 1.5 m	Brown (10YR5/3-Moist); Mottles, 2-10% , 0-5mm, Prominent; Mottles, 2-10% ; Sandy medium heavy clay; Weak grade of structure, 50-100 mm; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , ; Gypseous, , ; Soil matrix is Highly calcareous; Field pH 7.5 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC		ESP		
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity				%	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile